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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/823,465	03/30/2001	Peter Kirkpatrick	42390P12296	6092

7590

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EXAMINER

NGUYEN, TUYEN T

ART UNIT

PAPER NUMBER

2832

DATE MAILED: 06/19/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/823,465

Applicant(s)

Kirkpatrick et al.

Examiner

Tuyen T. Nguyen

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (e). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Dec 23, 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above, claim(s) 7-16 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6, 17, and 18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
*See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____ 6) ☐ Other:

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DETAILED ACTION

Election/Restriction

1. Applicant's election without traverse of specie 1 [claims 1-5 and 16-17] in Paper No. 8 is acknowledged.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 17 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 16, applicant should clarify the arrangement/connection of the wire bond relative to the trace.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in-

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(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

5. Claims 1-2 and 17-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Choi et al.

[US 6,292,084].

Choi et al. discloses an inductor package [figure 1] comprising:

- an insulating layer/substrate [11] including a channel/groove [12];
- a plurality of traces/conductive patterns [13] formed in the channel/groove, each of the plurality of traces/conductive patterns having first and second ends, the first ends of the plurality of traces/conductive patterns located at a first side of the substrate and the second ends of the plurality of traces/conductive patterns located at a second side of the substrate opposite to the first side; wherein the plurality of traces/conductive patterns are substantially parallel to each other; and

- a plurality of conductive wires/patterns [14] coupling the plurality of traces/conductive patterns [13] to form a coil by having each of the plurality of conductive wires/patterns coupling the first end of one trace/conductive pattern of the plurality of traces/conductive patterns to the second end of another of the plurality of traces/conductive patterns located adjacent to the one trace/conductive pattern.

6. Claims 1-2, 4 and 17-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Evans et al. [US 5,543,773]

Evans et al. discloses an inductor/transformer package [figure 22] comprising:

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- an insulating layer/substrate [121];
- a plurality of traces/conductive patterns [122] disposed on the substrate, each of the plurality of traces/conductive patterns having first and second ends, the first ends of the plurality of traces/conductive patterns located at a first side of the substrate and the second ends of the plurality of traces/conductive patterns located at a second side of the substrate opposite to the first side; wherein the plurality of traces/conductive patterns are substantially parallel to each other; and
- a plurality of conductive bonded wires/patterns [123] coupling the plurality of traces/conductive patterns [122] to form a coil by having each of the plurality of conductive wires/patterns coupling the first end of one trace/conductive pattern of the plurality of traces/conductive patterns to the second end of another of the plurality of traces/conductive patterns located adjacent to the one trace/conductive pattern, wherein the traces are wire-bonded to the wires.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 3 and 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Evans et al. in view of Hastings et al. [US 5,430,613].

Evans et al. discloses the instant claimed invention except for a resistor coupled to the coil.

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Hastings et al. discloses an integrated circuit package [figures 1-7] including a coil structure [13] formed on a substrate and coupled to at least one resistor.

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to a resistor coupled to the coil structure of Evans et al., as suggested by Hastings et al., for the purpose of enhancing trimming.

The specific method used to connect the wires/conductors to the electrically traces would have been an obvious design consideration for the purpose of completing the coil structure.

The specific pitch and length of the traces would have been an obvious design consideration based on the intended application use and for the purpose of reducing the size of the device/package.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Tuyen T. Nguyen whose telephone number is (703) 308-0821.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Elvin Enad, can be reached at (703) 308-7619. The fax number for this Group are (703) 308-7722 and (703) 308-7724.

Any inquiry of a general nature or relating to status of this application of proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

TTN *TTN*
June 12, 2003

Tuyen T. Nguyen